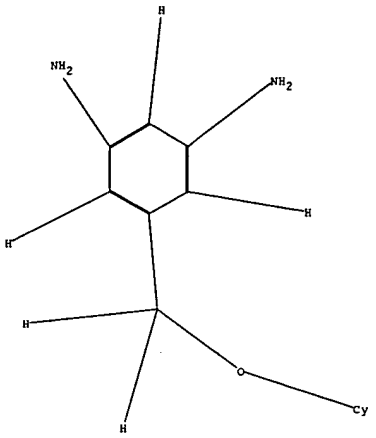
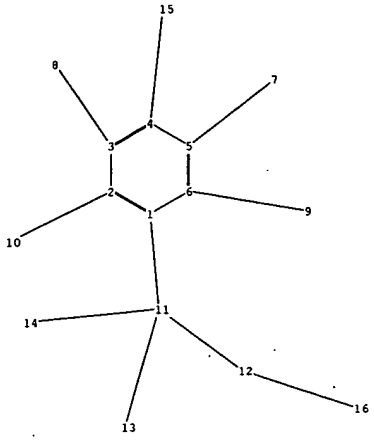
C:\Program Files\Stnexp\Queries\TJ-1.str





chain nodes :
7 8 9 10 11 12 13 14 15 16
ring nodes :
1 2 3 4 5 6
chain bonds :
1-11 2-10 3-8 4-15 5-7 6-9 11-12 11-13 11-14 12-16
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6
exact/norm bonds :
3-8 5-7 11-12 12-16
exact bonds :
1-11 2-10 4-15 6-9 11-13 11-14
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:Atom

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NEWS 3	OCT 23	The Derwent World Patents Index suite of databases on STN has been enhanced and reloaded
NEWS 4	OCT 30	CHEMLIST enhanced with new search and display field
NEWS 5	NOV 03	JAPIO enhanced with IPC 8 features and functionality
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NEWS 8	NOV 20	CA/CAplus to MARPAT accession number crossover limit increased to 50,000
NEWS 9	DEC 01	CAS REGISTRY updated with new ambiguity codes
NEWS 10	DEC 11	CAS REGISTRY chemical nomenclature enhanced
NEWS 11	DEC 14	WPIDS/WPINDEX/WPIX manual codes updated
NEWS 12	DEC 14	GBFULL and FRFULL enhanced with IPC 8 features and functionality
NEWS 13	DEC 18	CA/CAplus pre-1967 chemical substance index entries enhanced with preparation role
NEWS 14	DEC 18	CA/CAplus patent kind codes updated
NEWS 15	DEC 18	MARPAT to CA/CAplus accession number crossover limit increased to 50,000
NEWS 16	DEC 18	MEDLINE updated in preparation for 2007 reload
NEWS 17	DEC 27	CA/CAplus enhanced with more pre-1907 records
NEWS 18	JAN 08	CHEMLIST enhanced with New Zealand Inventory of Chemicals
NEWS 19	JAN 16	CA/CAplus Company Name Thesaurus enhanced and reloaded
NEWS 20	JAN 16	IPC version 2007.01 thesaurus available on STN
NEWS 21	JAN 16	WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS 22	JAN 22	CA/CAplus updated with revised CAS roles
NEWS 23	JAN 22	CA/CAplus enhanced with patent applications from India
NEWS 24	JAN 29	PHAR reloaded with new search and display fields
NEWS 25	JAN 29	CAS Registry Number crossover limit increased to 300,000 in multiple databases
NEWS 26	FEB 13	CASREACT coverage to be extended
NEWS 27	Feb 15	PATDPASPC enhanced with Drug Approval numbers
NEWS 28	Feb 15	RUSSIAPAT enhanced with pre-1994 records
NEWS 29	Feb 23	KOREAPAT enhanced with IPC 8 features and functionality
NEWS 30	Feb 26	MEDLINE reloaded with enhancements
NEWS 31	Feb 26	EMBASE enhanced with Clinical Trial Number field
NEWS 32	Feb 26	TOXCENTER enhanced with reloaded MEDLINE
NEWS 33	Feb 26	IFICDB/IFIPAT/IFIUDB reloaded with enhancements
NEWS 34	Feb 26	CAS Registry Number crossover limit increased from 10,000 to 300,000 in multiple databases

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                                                           ENTRY    SESSION
FULL ESTIMATED COST                                         0.63       0.63

FILE 'REGISTRY' ENTERED AT 09:04:01 ON 13 MAR 2007
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DICTIONARY FILE UPDATES:  11 MAR 2007  HIGHEST RN 926007-42-3

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L1      STRUCTURE UPLOADED

=> D L1
L1 HAS NO ANSWERS
L1              STR

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=> S L1 FULL
FULL SEARCH INITIATED 09:05:18 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    50557 TO ITERATE
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100.0% PROCESSED 50557 ITERATIONS 21 ANSWERS
SEARCH TIME: 00.00.01

L2 21 SEA SSS FUL L1

=> FILE CAPLUS
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 173.00 173.63

FILE 'CAPLUS' ENTERED AT 09:05:31 ON 13 MAR 2007
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FILE LAST UPDATED: 11 Mar 2007 (20070311/ED)

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=> S L2
L3 10 L2

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L4 NOT FOUND
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=> D L3 IBIB ABS HITSTR 1-10

L3 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:48551 CAPLUS
DOCUMENT NUMBER: 144:139035
TITLE: Optically active phenylenediamines, and their polyimides or polyimide precursors
INVENTOR(S): Sahade, Daniel Antonio; Oda, Takuo
PATENT ASSIGNEE(S): Nissan Chemical Industries, Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 17 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
JP 2006016303	A	20060119	JP 2004-187213		20040625
PRIORITY APPLN. INFO.:			JP 2004-164336	A	20040602

OTHER SOURCE(S): MARPAT 144:139035

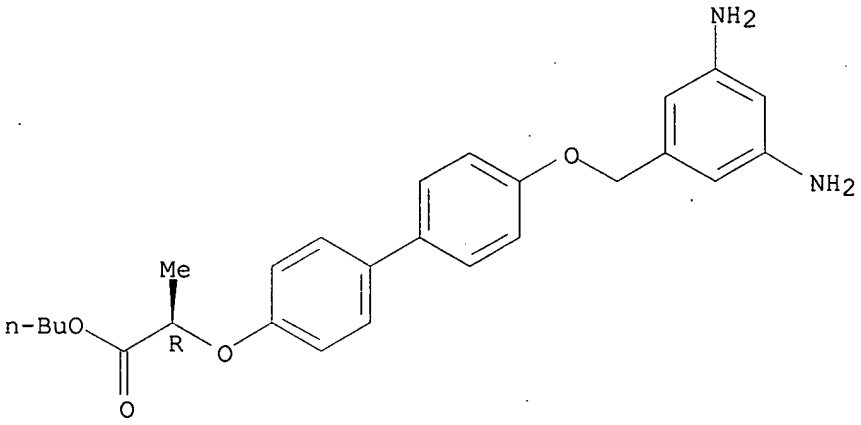
AB The phenylenediamines are PX1X2OG or PX1(CH2)nOX2OG [P = diaminophenyl; X1 = O, CH2O, CO2; X2 = phenylene, diphenylene; G = (R)- or (S)-X3C*HX6X4X5; * = chiral point; X3 = single bond, CH2; x4 = CH2, CO2; X5 = C1-10 alkyl; X6 = CF3, Me; n = 1-10]. The polyimides or polyimide precursors bearing optically active groups on side chains are useful for liquid crystal alignment films for displays.

IT 873691-16-8P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(optically active phenylenediamines for polyimides or polyimide precursors for liquid crystal alignment films)

RN 873691-16-8 CAPLUS

CN Propanoic acid, 2-[[4'-[(3,5-diaminophenyl)methoxy][1,1'-biphenyl]-4-yl]oxy]-, butyl ester, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 873691-26-0P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(optically active phenylenediamines for polyimides or polyimide precursors for liquid crystal alignment films)

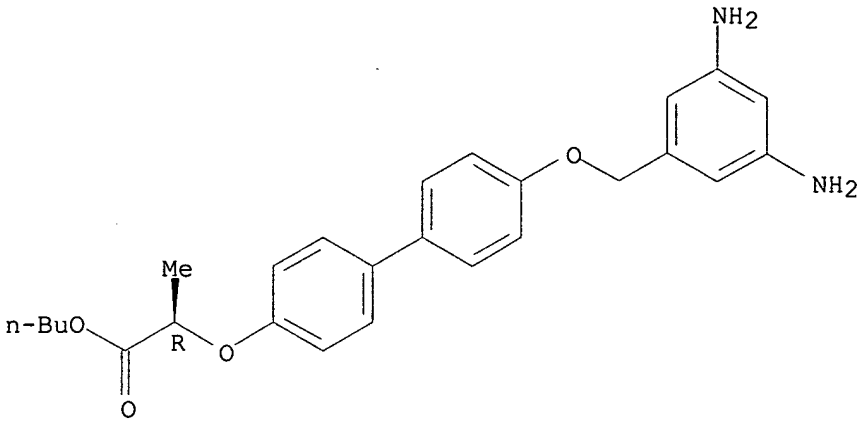
RN 873691-26-0 CAPLUS

CN Propanoic acid, 2-[[4'-[(3,5-diaminophenyl)methoxy][1,1'-biphenyl]-4-yl]oxy]-, butyl ester, (2R)-, polymer with tetrahydrocyclobuta[1,2-c:3,4-c']difurantetrone (9CI) (CA INDEX NAME)

CM 1

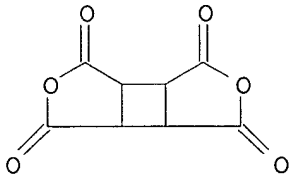
CRN 873691-16-8
CMF C26 H30 N2 O4

Absolute stereochemistry.



CM 2

CRN 4415-87-6
CMF C8 H4 O6



L3 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:996247 CAPLUS
DOCUMENT NUMBER: 141:429761
TITLE: Alignment agent for liquid crystal
INVENTOR(S): Taki, Hirotsugu; Saito, Tetsuya
PATENT ASSIGNEE(S): Nissan Chemical Industries, Ltd., Japan
SOURCE: PCT Int. Appl., 34 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004099289	A1	20041118	WO 2004-JP6275	20040430
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CN 1784452	A	20060607	CN 2004-80012064	20040430

PRIORITY APPLN. INFO.: JP 2003-129091 A 20030507

AB An alignment agent for a liquid crystal which contains one or more polymers for forming an alignment film for a liquid crystal, characterized in that at

least one of the polymers is a polymer which has an alkylene group having 4 to 16 carbon atoms in the main chain thereof and has a side chain having a function to enhance the pretilt angle of the liquid crystal. The alignment agent for a liquid crystal can provide an alignment film which allows the achievement of a high and thermally stable crystal orientation and pretilt angle without the reliance on a process, such as rubbing and cleaning by an organic solvent.

IT 796853-43-5P
RL: DEV (Device component use); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(polyimide alignment agent for liquid crystal display element)

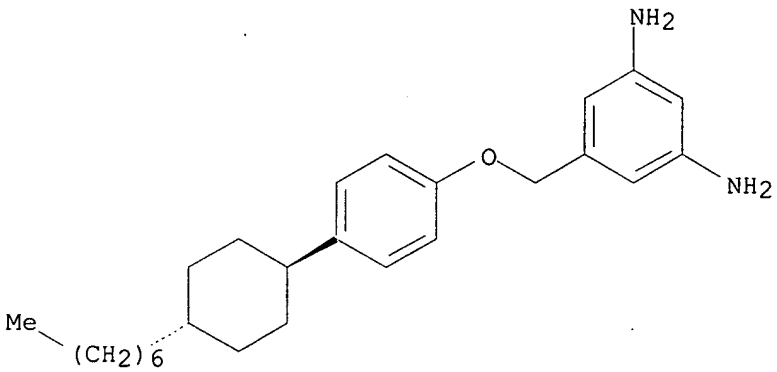
RN 796853-43-5 CAPLUS

CN 1H,3H-Benzo[1,2-c:4,5-c']difuran-1,3,5,7-tetrone, polymer with 5-[[4-(trans-4-heptylcyclohexyl)phenoxy]methyl]-1,3-benzenediamine and 4,4'-[1,5-pentanediylbis(oxy)]bis[benzenamine] (9CI) (CA INDEX NAME)

CM 1

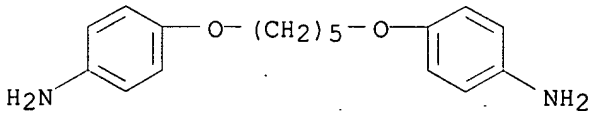
CRN 796853-39-9
CMF C26 H38 N2 O

Relative stereochemistry.



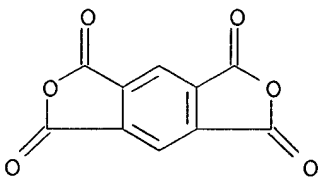
CM 2

CRN 2391-56-2
CMF C17 H22 N2 O2



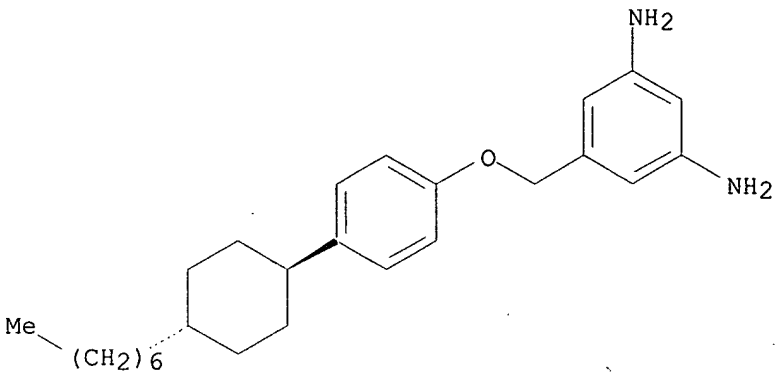
CM 3

CRN 89-32-7
CMF C10 H2 O6



IT 796853-39-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(polyimide alignment agent for liquid crystal display element)
RN 796853-39-9 CAPLUS
CN 1,3-Benzenediamine, 5-[[4-(trans-4-heptylcyclohexyl)phenoxy]methyl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

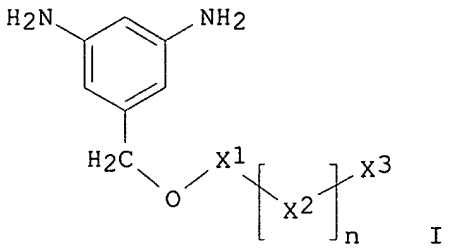


REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:515568 CAPLUS
DOCUMENT NUMBER: 141:54799
TITLE: Novel diaminobenzene derivative, polyimide precursor and polyimide obtained therefrom, and aligning agent for liquid crystal
INVENTOR(S): Hosaka, Kazuyoshi; Taki, Hirotsugu; Nawata, Hideyuki
PATENT ASSIGNEE(S): Nissan Chemical Industries, Ltd., Japan
SOURCE: PCT Int. Appl., 30 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004052962	A1	20040624	WO 2003-JP15800	20031210
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003289305	A1	20040630	AU 2003-289305	20031210
CN 1720280	A	20060111	CN 2003-80105205	20031210
US 2006246230	A1	20061102	US 2005-538060	20050609
PRIORITY APPLN. INFO.:			JP 2002-359224 A	20021211
			WO 2003-JP15800 W	20031210

OTHER SOURCE(S): MARPAT 141:54799
GI



I

AB The present invention relates to (i) a novel diamine useful especially as a material for a resin for liquid-crystal alignment films, (ii) a polyimide precursor or polyimide synthesized from the diamine, and (iii) an aligning agent for liquid crystals which comprises the polymer. The aligning agent gives a liquid-crystal alignment film which has a high pretilt angle for liquid crystals, has excellent thermal stability of the pretilt angle, and is reduced in the dependence of the pretilt angle on rubbing pressure. The diamine is a diaminobenzene derivative I, wherein X1, X2 = a cyclic group and X3 = a member selected from alkyl, alkoxy, fluoroalkyl, fluoroalkoxy, fluorine, chlorine, bromine, and cyano. The polyimide precursor or polyimide is synthesized using the diaminobenzene derivative as part of the starting materials. The aligning agent for liquid crystals comprises at least one of these polymers. Thus, 100.00 g biphenol and 103.90 g 1-bromooctane were reacted at 110° for 10 h, reacted with 3,5-dinitrobenzyl chloride, and reduced to give a diamine with m.p. 192-196°, 1.64 g of which was polymerized with 2.25 g 1,4-diaminobenzene and 7.81 g 3,4-dicarboxy-1,2,3,4-tetrahydro-1-naphthalene succinic dianhydride to give 20%-solids polyimide precursor with viscosity 3481 mPa-s and weight average mol. weight 134,600, the resulting precursor solution was diluted with NMP and Bu cellosolve, applied on an ITO-coated glass substrate, heated at 80° for 5 min and 220° for 1 h, rubbed with a rayon cloth, and fabricated into a liquid crystal cell, showing free tilt angle 6.8° initially, 6.9° after treatment at 120° for 5 min, and 6.9° after treatment at 120° for 1 h.

IT 709031-69-6P 709031-71-0P
RL: DEV (Device component use); IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); PYP (Physical process); TEM (Technical or engineered material use); PREP (Preparation); PROC (Process); USES (Uses)
(liquid crystal; preparation of diaminobenzene derivs. for polyimide precursors useful as aligning agents for liquid crystals)

RN 709031-69-6 CAPLUS

CN Naphtho[1,2-c]furan-1,3-dione, 3a,4,5,9b-tetrahydro-5-(tetrahydro-2,5-dioxo-3-furanyl)-, polymer with 1,4-benzenediamine and 5-[[[4'-(octyloxy)[1,1'-biphenyl]-4-yl]oxy]methyl]-1,3-benzenediamine (9CI) (CA INDEX NAME)

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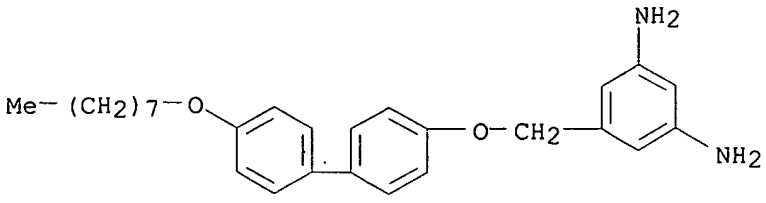
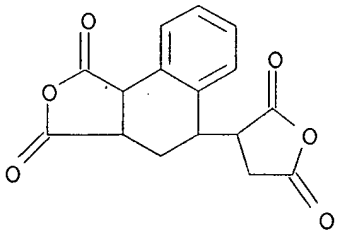
CRN 709031-65-2
CMF C27 H34 N2 O2



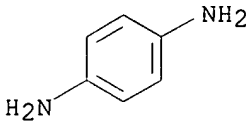
CM 2

CRN 13912-65-7
CMF C16 H12 O6



CM 3

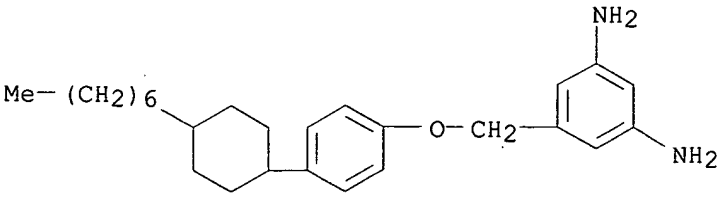
CRN 106-50-3
CMF C6 H8 N2



RN 709031-71-0 CAPLUS
CN Naphtho[1,2-c]furan-1,3-dione, 3a,4,5,9b-tetrahydro-5-(tetrahydro-2,5-dioxo-3-furanyl)-, polymer with 1,4-benzenediamine and 5-[[4-(4-heptylcyclohexyl)phenoxy]methyl]-1,3-benzenediamine (9CI) (CA INDEX NAME)

CM 1

CRN 709031-68-5
CMF C26 H38 N2 O



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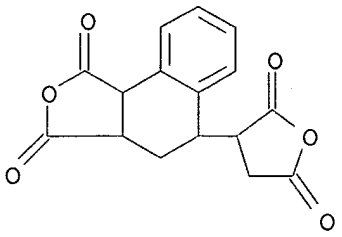
CRN 13912-65-7
CMF C16 H12 O6



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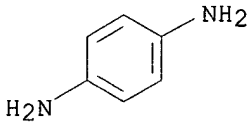
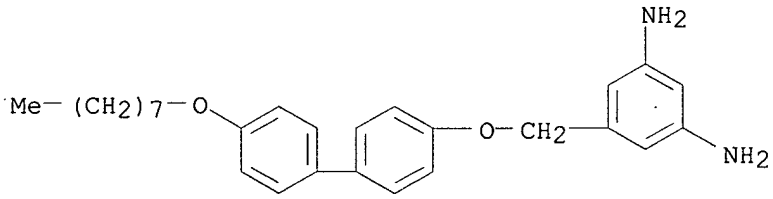
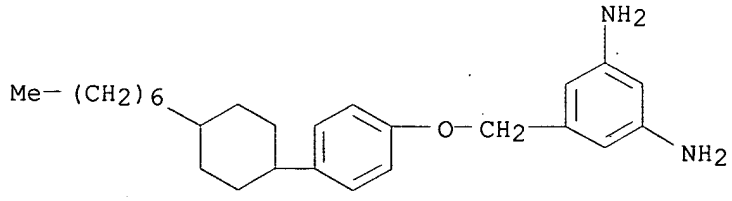
CRN 106-50-3
CMF C6 H8 N2



IT 709031-65-2P 709031-68-5P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(monomer; preparation of diaminobenzene derivs. for polyimide precursors useful as aligning agents for liquid crystals)
RN 709031-65-2 CAPLUS
CN 1,3-Benzenediamine, 5-[[[4'-(octyloxy)[1,1'-biphenyl]-4-yl]oxy]methyl]- (9CI) (CA INDEX NAME)



RN 709031-68-5 CAPLUS
CN 1,3-Benzenediamine, 5-[[4-(4-heptylcyclohexyl)phenoxy]methyl]- (9CI) (CA INDEX NAME)

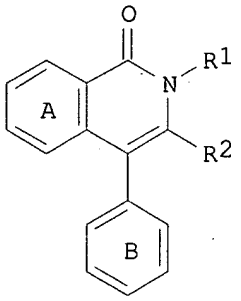


L3 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2002:902258 CAPLUS

DOCUMENT NUMBER: 137:379992
TITLE: Method of inhibiting neoplastic cells with isoquinolinonecarboxylates
INVENTOR(S): Pamukcu, Rifat; Piazza, Gary A.
PATENT ASSIGNEE(S): Cell Pathways, Inc., USA
SOURCE: U.S., 119 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6486155	B1	20021126	US 1998-198413	19981124
PRIORITY APPLN. INFO.:			US 1998-198413	19981124

OTHER SOURCE(S): MARPAT 137:379992
GI



I

AB A method is claimed for inhibiting neoplasia (no data), particularly cancerous and precancerous lesions, by exposing the affected cells to 1-isoquinoline-3-carboxylates. Such compds. are effective in modulating apoptosis and eliminating and inhibiting the growth of neoplasias such as precancerous lesions, but are not characterized by the severe side reactions of conventional non-steroidal antiinflammatory drugs or other chemotherapeutics. Although the methods of preparation are not claimed, example prepns. of 429 isoquinolines and 107 intermediates are included; these examples are referenced to PCT application WO 98/38168. Although the claims indicate I (ring A and ring B are the same or different and each a (un)substituted benzene ring, R1 is morpholine, R2 is -COOR3, and R3 is alkyl; e.g. 7-benzyloxy-6-methoxy-3-methoxycarbonyl-2-morpholino-4-(3,4,5-trimethoxyphenyl)-1(2H)-isoquinolinone) or pharmaceutically acceptable salt thereof, the examples include a much broader variety of 1-isoquinoline-3-carboxylates.

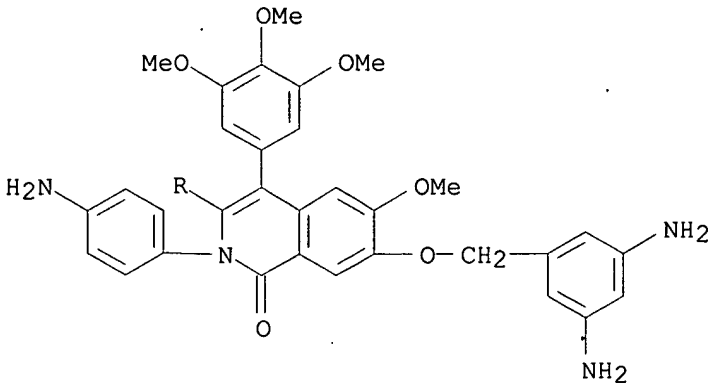
IT 212498-74-3P, 3-Isoquinolinecarboxylic acid, 2-(4-aminophenyl)-7-[(3,5-diaminophenyl)methoxy]-1,2-dihydro-6-methoxy-1-oxo-4-(3,4,5-trimethoxyphenyl)-, methyl ester, trihydrochloride 212499-20-2P, 3-Isoquinolinecarboxylic acid, 2-(4-aminophenyl)-7-[(3,5-diaminophenyl)methoxy]-1,2-dihydro-1-oxo-4-(3,4,5-trimethoxyphenyl)-, methyl ester, trihydrochloride 212499-85-9P, 3-Isoquinolinecarboxylic acid, 2-(4-aminophenyl)-7-[(3,5-diaminophenyl)methoxy]-4-(3,5-dimethoxy-4-methylphenyl)-1,2-dihydro-1-oxo-, methyl ester, trihydrochloride 212500-32-8P, 3-Isoquinolinecarboxylic acid, 2-(4-aminophenyl)-7-[(3,5-diaminophenyl)methoxy]-1,2-dihydro-6-methoxy-1-oxo-4-(3,4,5-trimethoxyphenyl)-, methyl ester 212500-49-7P, 3-Isoquinolinecarboxylic acid, 2-(4-aminophenyl)-7-[(3,5-diaminophenyl)methoxy]-1,2-dihydro-1-oxo-4-(3,4,5-trimethoxyphenyl)-, methyl ester 212500-73-7P, 3-Isoquinolinecarboxylic acid,

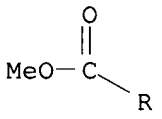
2-(4-aminophenyl)-7-[(3,5-diaminophenyl)methoxy]-4-(3,5-dimethoxy-4-methylphenyl)-1,2-dihydro-1-oxo-, methyl ester
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of isoquinolinonecarboxylates for inhibiting neoplastic cells)

RN 212498-74-3 CAPLUS

CN 3-Isoquinolinecarboxylic acid, 2-(4-aminophenyl)-7-[(3,5-diaminophenyl)methoxy]-1,2-dihydro-6-methoxy-1-oxo-4-(3,4,5-trimethoxyphenyl)-, methyl ester, trihydrochloride (9CI) (CA INDEX NAME)

PAGE 1-A





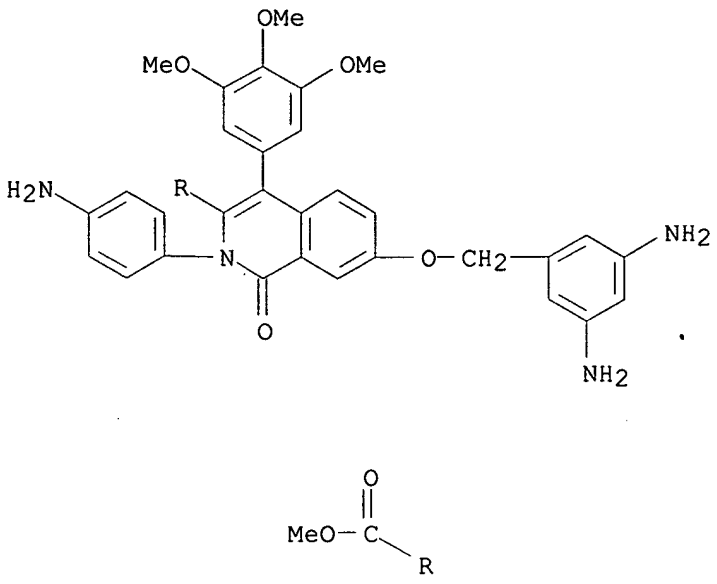
PAGE 2-A

●3 HCl

RN 212499-20-2 CAPLUS

CN 3-Isoquinolinecarboxylic acid, 2-(4-aminophenyl)-7-[(3,5-diaminophenyl)methoxy]-1,2-dihydro-1-oxo-4-(3,4,5-trimethoxyphenyl)-, methyl ester, trihydrochloride (9CI) (CA INDEX NAME)

PAGE 1-A

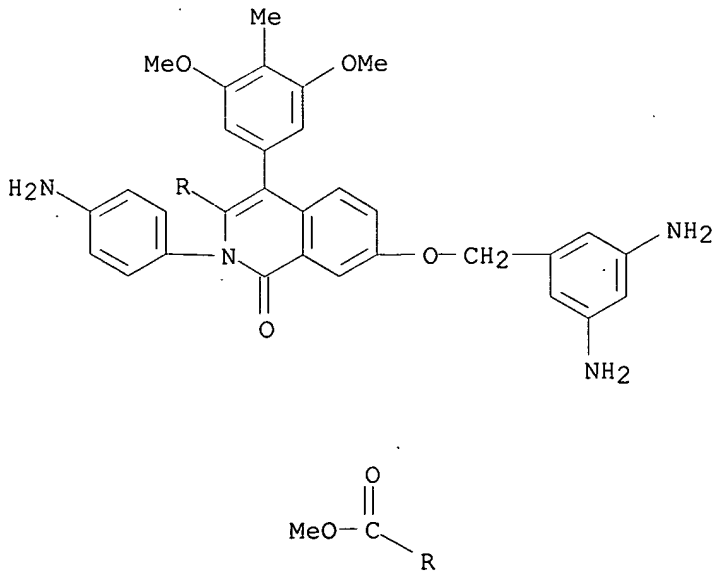


PAGE 2-A

●3 HCl

RN 212499-85-9 CAPLUS
CN 3-Isoquinolinecarboxylic acid, 2-(4-aminophenyl)-7-[(3,5-diaminophenyl)methoxy]-4-(3,5-dimethoxy-4-methylphenyl)-1,2-dihydro-1-oxo-, methyl ester, trihydrochloride (9CI). (CA INDEX NAME)

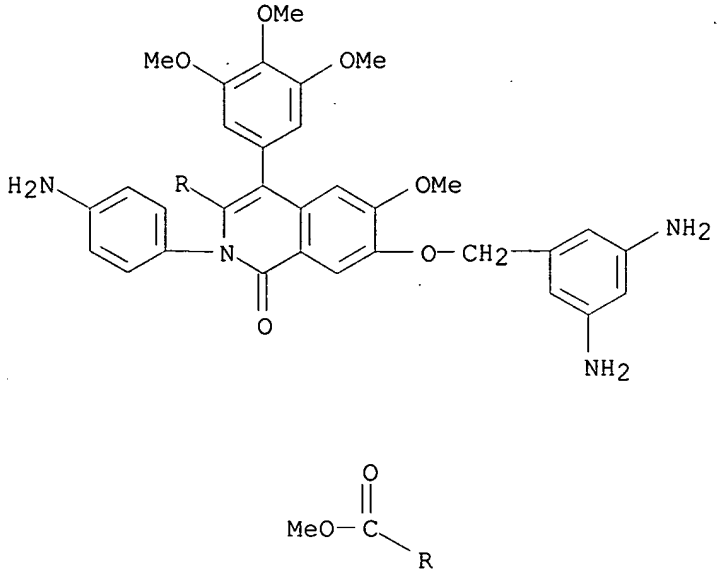
PAGE 1-A



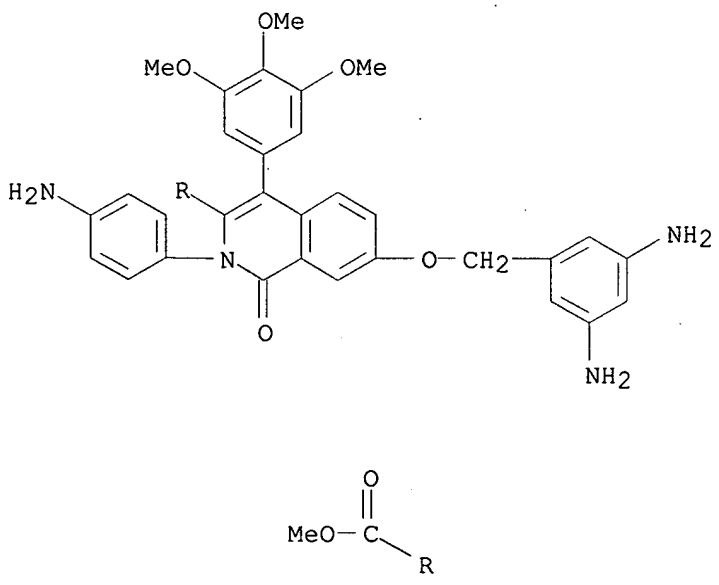
PAGE 2-A

●3 HCl

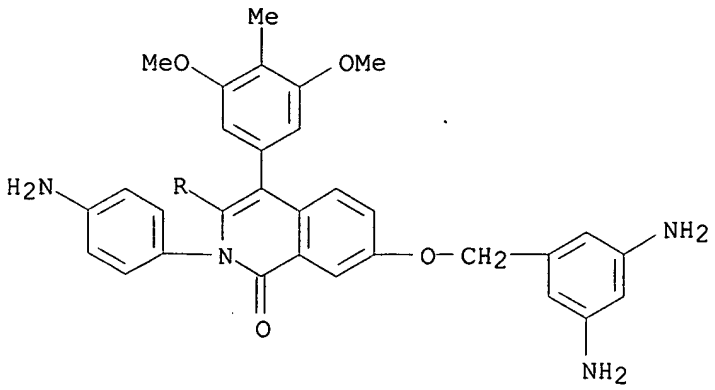
RN 212500-32-8 CAPLUS
CN 3-Isoquinolinecarboxylic acid, 2-(4-aminophenyl)-7-[(3,5-diaminophenyl)methoxy]-1,2-dihydro-6-methoxy-1-oxo-4-(3,4,5-trimethoxyphenyl)-, methyl ester (9CI) (CA INDEX NAME)

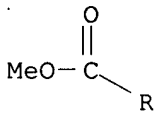


RN 212500-49-7 CAPLUS
CN 3-Isoquinolinecarboxylic acid, 2-(4-aminophenyl)-7-[(3,5-diaminophenyl)methoxy]-1,2-dihydro-1-oxo-4-(3,4,5-trimethoxyphenyl)-, methyl ester (9CI) (CA INDEX NAME)



RN 212500-73-7 CAPLUS
CN 3-Isoquinolinecarboxylic acid, 2-(4-aminophenyl)-7-[(3,5-diaminophenyl)methoxy]-4-(3,5-dimethoxy-4-methylphenyl)-1,2-dihydro-1-oxo-, methyl ester (9CI) (CA INDEX NAME)





REFERENCE COUNT: 171 THERE ARE 171 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2002:575044 CAPLUS
DOCUMENT NUMBER: 137:124993
TITLE: Trisubstituted carbocyclic cyclophilin binding compounds and their use
INVENTOR(S): Wu, Yong-Qian; Belyakov, Sergei; Hamilton, Gregory; Limburg, David; Steiner, Joseph; Vaal, Mark; Wei, Ling; Wilkinson, Douglas
PATENT ASSIGNEE(S): Guilford Pharmaceuticals Inc., USA
SOURCE: PCT Int. Appl., 120 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002059080	A2	20020801	WO 2002-US2538	20020125
WO 2002059080	A3	20021219		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2435829	A1	20020801	CA 2002-2435829	20020125
US 2002165275	A1	20021107	US 2002-57203	20020125
US 6656971	B2	20031202		
EP 1360173	A2	20031112	EP 2002-706049	20020125
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004532187	T	20041021	JP 2002-559382	20020125

US 2004157919	A1	20040812	US 2003-713566		20031114
PRIORITY APPLN. INFO.:			US 2001-263703P	P	20010125
			US 2001-291965P	P	20010521
			US 2001-291365P	P	20010517
			US 2002-57203	A3	20020125
			WO 2002-US2538	W	20020125

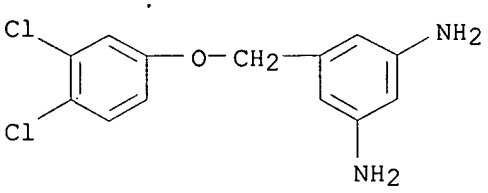
OTHER SOURCE(S): MARPAT 137:124993

AB Novel, non-peptidic small organic compds. having an affinity for cyclophilin (CyP)-type immunophilin proteins are reported. These compds. are used for binding CyP-type proteins, inhibiting their peptidyl-prolyl isomerase activity. Thus, 5-HOC6H3(CO2Me)2-1,3 was O-benzylated, hydrolized to the acid and treated with 3,4-Cl2C6H3NH2 to give 5-PhCH2OC6H3(CONHC6H3Cl2-3,4)2-1,3. This compound gave complete protection against cell death in L-threo-3-hydroxyaspartic acid treated spinal cord slices.

IT 444343-54-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(trisubstituted carbocyclic cyclophilin binding compds.)

RN 444343-54-8 CAPLUS

CN 1,3-Benzenediamine, 5-[(3,4-dichlorophenoxy)methyl]- (9CI) (CA INDEX NAME)



L3 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:151451 CAPLUS

DOCUMENT NUMBER: 132:207769

TITLE: Preparation of isoquinolinones as effective component in medicine

INVENTOR(S): Ukita, Shinzo; Ohmori, Kanji; Ikeo, Tomihiro

PATENT ASSIGNEE(S): Tanabe Seiyaku Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 148 pp.
CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000072675	A	20000307	JP 1998-240446	19980826

PRIORITY APPLN. INFO.: JP 1998-240446 19980826

OTHER SOURCE(S): MARPAT 132:207769

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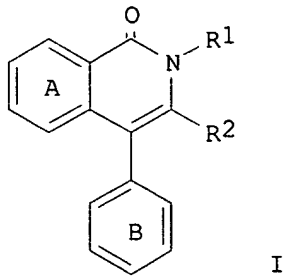

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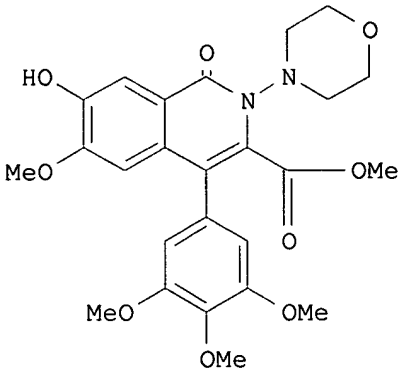


II

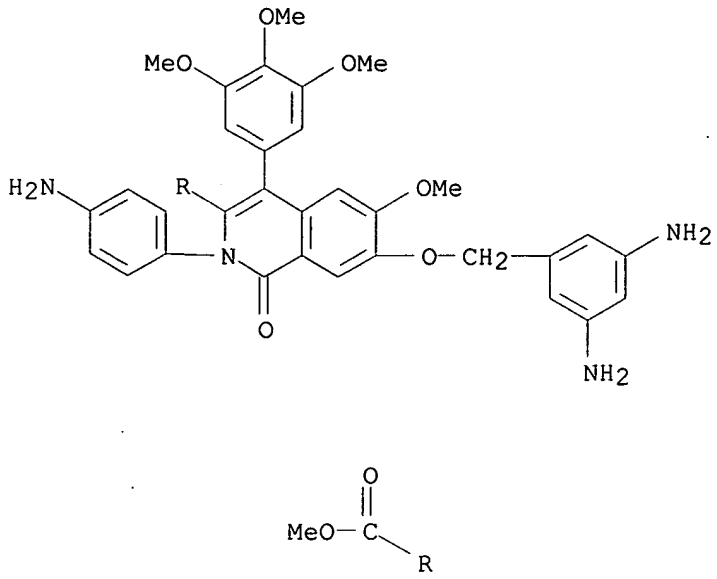
AB Title compds. [I; ring A and ring B equivalent or different, substituted or unsubstituted benzene ring; R1 = H, N(CH3)2, 4-H2NC6H4, 4-CH3OCOC6H4, alkyl, cycloalkyl, aryl, complex cyclic; R2 = COOH, COOCH3, COOCH2CH3, COOCH2C6H5, COO(CH2)3CH3] and pharmaceutical acceptable salts are prepared and tested as PDEV inhibitors. The title compound II was prepared

IT 212498-74-3P 212499-20-2P 212499-85-9P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of isoquinolinones as effective component in medicine)

RN 212498-74-3 CAPLUS

CN 3-Isoquinolinecarboxylic acid, 2-(4-aminophenyl)-7-[(3,5-diaminophenyl)methoxy]-1,2-dihydro-6-methoxy-1-oxo-4-(3,4,5-trimethoxyphenyl)-, methyl ester, trihydrochloride (9CI) (CA INDEX NAME)

PAGE 1-A

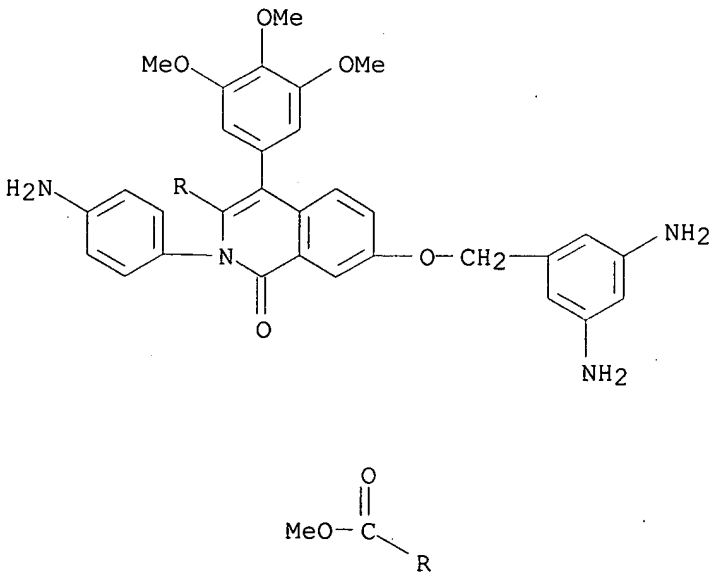


PAGE 2-A

● 3 HCl

RN 212499-20-2 CAPLUS
CN 3-Isoquinolinecarboxylic acid, 2-(4-aminophenyl)-7-[(3,5-diaminophenyl)methoxy]-1,2-dihydro-1-oxo-4-(3,4,5-trimethoxyphenyl)-, methyl ester, trihydrochloride (9CI) (CA INDEX NAME)

PAGE 1-A

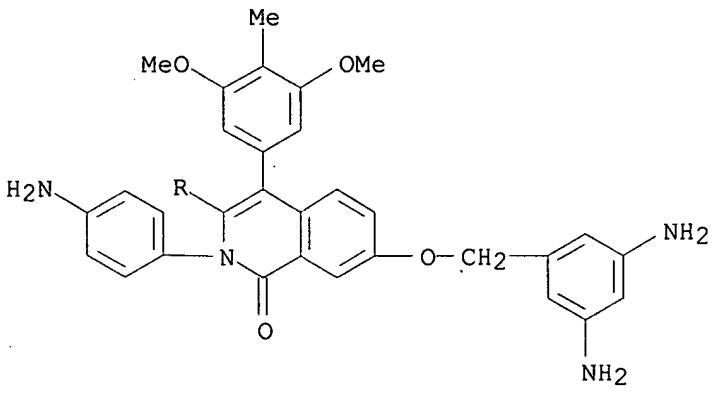


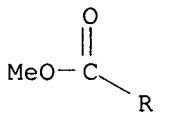
PAGE 2-A

● 3 HCl

RN 212499-85-9 CAPLUS
CN 3-Isoquinolinecarboxylic acid, 2-(4-aminophenyl)-7-[(3,5-diaminophenyl)methoxy]-4-(3,5-dimethoxy-4-methylphenyl)-1,2-dihydro-1-oxo-, methyl ester, trihydrochloride (9CI) (CA INDEX NAME)

PAGE 1-A





PAGE 2-A

●3 HCl

L3 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1998:608601 CAPLUS
DOCUMENT NUMBER: 129:216521
TITLE: Preparation of 1-isoquinolinone-3-carboxylates as PDE V inhibitors
INVENTOR(S): Ukita, Tatsuzo; Omori, Kenji; Ikeo, Tomihiro
PATENT ASSIGNEE(S): Tanabe Seiyaku Co., Ltd., Japan
SOURCE: PCT Int. Appl., 299 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9838168	A1	19980903	WO 1998-JP715	19980223
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
IN 1998MA00345	A	20050304	IN 1998-MA345	19980220
AU 9862300	A	19980918	AU 1998-62300	19980223

JP 10298164	A	19981110	JP 1998-44139		19980226
PRIORITY APPLN. INFO.:			JP 1997-44408	A	19970227
			WO 1998-JP715	W	19980223

OTHER SOURCE(S): MARPAT 129:216521
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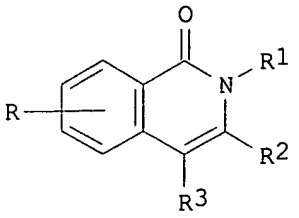

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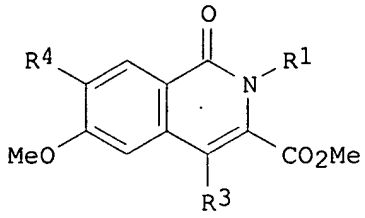


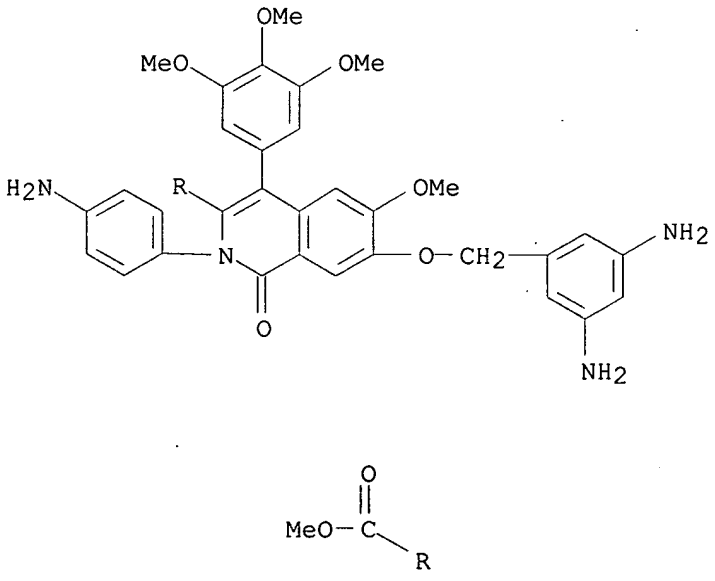
II

AB Title compds. [I; R = H or substituent(s); R1 = H, NH2, (cyclo)alkyl, heterocyclyl, aryl, etc.; R2 = (esterified) CO2H, CONH2, N-attached heterocyclylcarbonyl, etc.; R3 = (un)substituted Ph] were prepared as PDE V inhibitors (no data). Thus, 5-benzyloxy-4-methoxy-2-(3,4,5-trimethoxybenzoyl)benzoic acid was cyclocondensed with CH2(CO2CMe3)2 and the hydrated product cyclocondensed with 4-(H2N)C6H4NHCO2CMe3 to give, in 4 addnl. steps, title compound II [R1 = C6H4(NH2)-4, R3 = C6H2(OMe)3-3,4,5, R4 = 2-pyridylmethoxy].

IT 212498-74-3P 212499-20-2P 212499-85-9P
212500-32-8P 212500-49-7P 212500-73-7P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of 1-isoquinolinone-3-carboxylates as PDE V inhibitors)

RN 212498-74-3 CAPLUS

CN 3-Isoquinolinecarboxylic acid, 2-(4-aminophenyl)-7-[(3,5-diaminophenyl)methoxy]-1,2-dihydro-6-methoxy-1-oxo-4-(3,4,5-trimethoxyphenyl)-, methyl ester, trihydrochloride (9CI) (CA INDEX NAME)

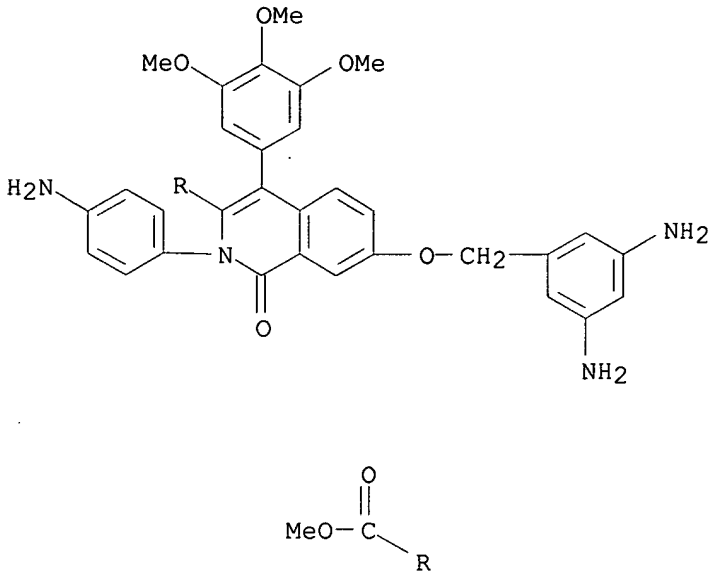


PAGE 2-A

●3 HCl

RN 212499-20-2 CAPLUS
CN 3-Isoquinolinecarboxylic acid, 2-(4-aminophenyl)-7-[(3,5-diaminophenyl)methoxy]-1,2-dihydro-1-oxo-4-(3,4,5-trimethoxyphenyl)-, methyl ester, trihydrochloride (9CI) (CA INDEX NAME)

PAGE 1-A

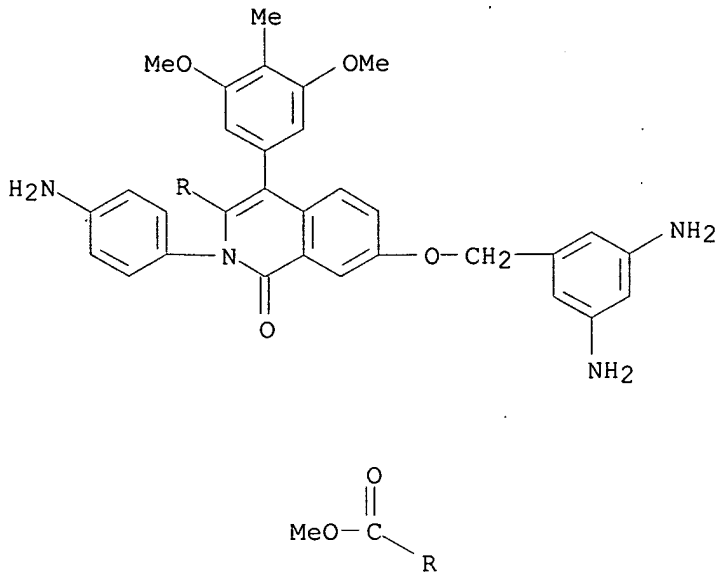


PAGE 2-A

●3 ·HCl

RN 212499-85-9 CAPLUS
CN 3-Isoquinolinecarboxylic acid, 2-(4-aminophenyl)-7-[(3,5-diaminophenyl)methoxy]-4-(3,5-dimethoxy-4-methylphenyl)-1,2-dihydro-1-oxo-, methyl ester, trihydrochloride (9CI) (CA INDEX NAME)

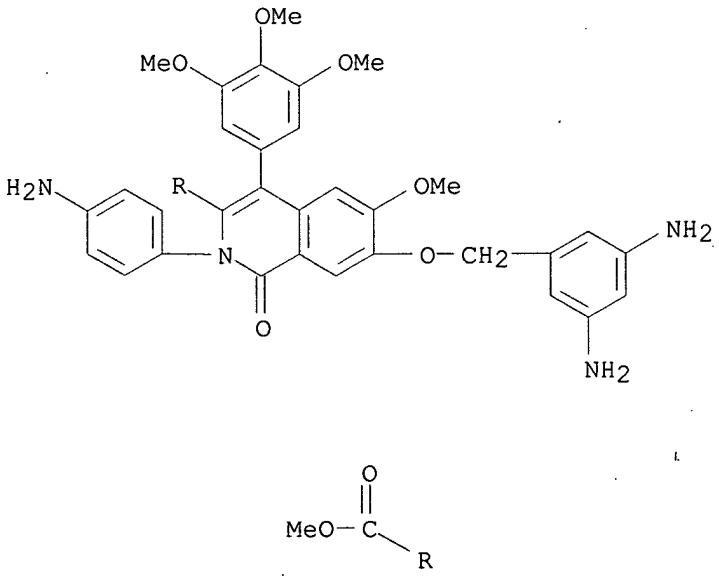
PAGE 1-A



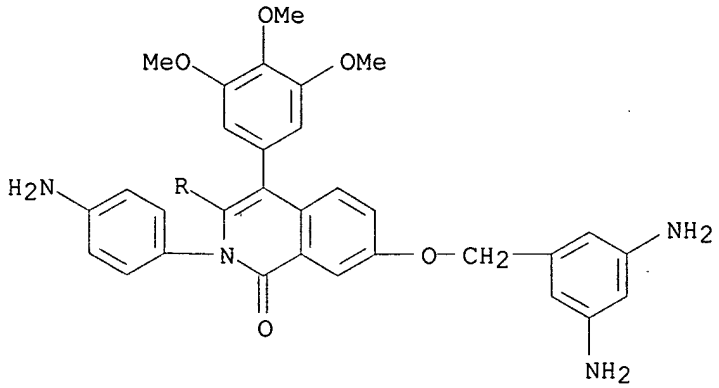
PAGE 2-A

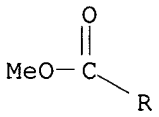
●3 HCl

RN 212500-32-8 CAPLUS
CN 3-Isoquinolinecarboxylic acid, 2-(4-aminophenyl)-7-[(3,5-diaminophenyl)methoxy]-1,2-dihydro-6-methoxy-1-oxo-4-(3,4,5-trimethoxyphenyl)-, methyl ester (9CI) (CA INDEX NAME)

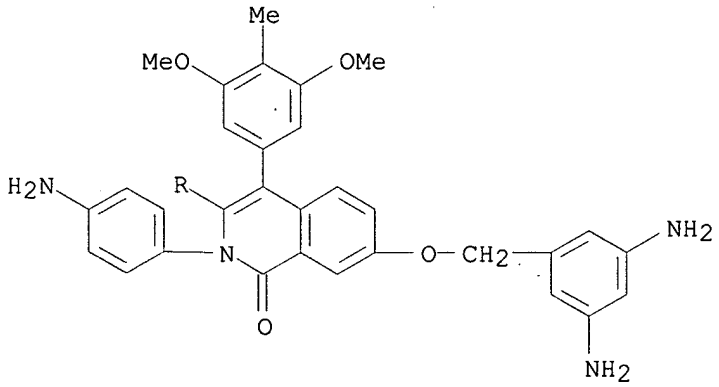


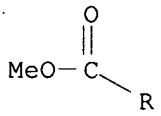
RN 212500-49-7 CAPLUS
CN 3-Isoquinolinecarboxylic acid, 2-(4-aminophenyl)-7-[(3,5-diaminophenyl)methoxy]-1,2-dihydro-1-oxo-4-(3,4,5-trimethoxyphenyl)-, methyl ester (9CI) (CA INDEX NAME)





RN 212500-73-7 CAPLUS
CN 3-Isoquinolinecarboxylic acid, 2-(4-aminophenyl)-7-[(3,5-diaminophenyl)methoxy]-4-(3,5-dimethoxy-4-methylphenyl)-1,2-dihydro-1-oxo-, methyl ester (9CI) (CA INDEX NAME)





REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1996:247213 CAPLUS
DOCUMENT NUMBER: 125:34617
TITLE: An analysis of relaxation processes in electro-optic polymers
AUTHOR(S): Burland, Donald M.; Verbiest, Thierry
CORPORATE SOURCE: Res. Div., IBM, San Jose, CA, USA
SOURCE: MCLC S&T, Section B: Nonlinear Optics (1996), 15(1-4),

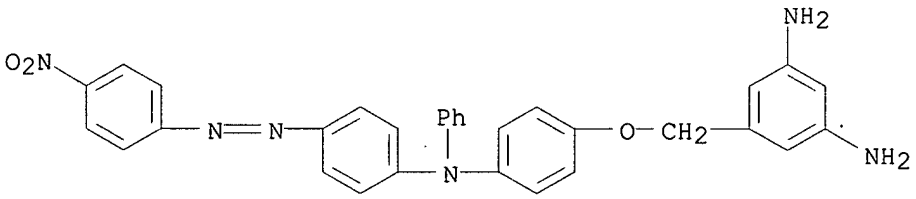
299-306
CODEN: MCLOEB; ISSN: 1058-7268
PUBLISHER: Gordon & Breach
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The orientational relaxation of dipolar chromophores dissolved in or attached to an amorphous polymer was studied by monitoring the decay of the 2nd-harmonic generation. From the temperature dependence of the fitting parameters associated with the log-normal or Wagner function activation, the entropies, enthalpies, and thermal expansion coeffs. were determined

IT 177994-71-7 177994-72-8
RL: PRP (Properties)
(anal. of orientational relaxation of dipolar chromophores dissolved in or attached to amorphous polymers)

RN 177994-71-7 CAPLUS
CN 1,3-Isobenzofurandione, 5,5'-oxybis-, polymer with 5-[[4-[[4-[(4-nitrophenyl)azo]phenyl]phenylamino]phenoxy]methyl]-1,3-benzenediamine (9CI) (CA INDEX NAME)

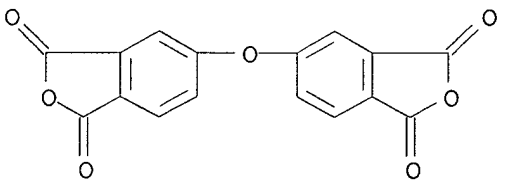
CM 1

CRN 177994-70-6
CMF C31 H26 N6 O3



CM 2

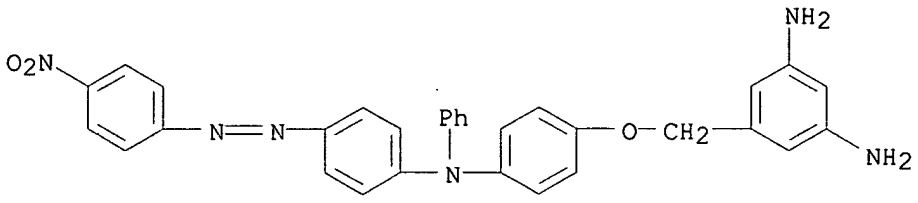
CRN 1823-59-2
CMF C16 H6 O7



RN 177994-72-8 CAPLUS
CN 1,3-Isobenzofurandione, 5,5'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis-, polymer with 5-[[4-[[4-[(4-nitrophenyl)azo]phenyl]phenylamino]phenoxy]methyl]-1,3-benzenediamine (9CI) (CA INDEX NAME)

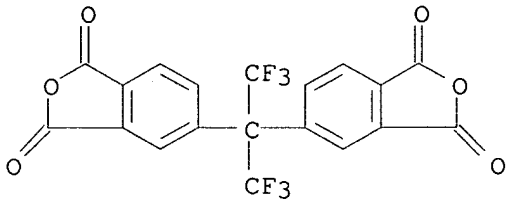
CM 1

CRN 177994-70-6
CMF C31 H26 N6 O3



CM 2

CRN 1107-00-2
CMF C19 H6 F6 O6



L3 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1995:969418 CAPLUS
DOCUMENT NUMBER: 124:202946
TITLE: Preparation of sulfate esters of sugar alcohols for the treatment of arteriosclerotic changes in the vascular walls.
INVENTOR(S): Chucholowski, Alexander; Fingerle, Juergen; Iberg, Niggi; Maerki, Hans Peter; Mueller, Rita; Pech, Michael; Rouge, Marianne; Schmid, Gerard; Tschopp, Thomas; Wessel, Hans Peter
PATENT ASSIGNEE(S): F. Hoffmann-La Roche AG, Switz.
SOURCE: Eur. Pat. Appl., 42 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 663391	A1	19950719	EP 1995-100180	19950109
EP 663391	B1	19970409		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
US 5521160	A	19960528	US 1995-368519	19950104
CA 2139720	A1	19950715	CA 1995-2139720	19950106
ZA 9500086	A	19950720	ZA 1995-86	19950106
AU 9510106	A	19950727	AU 1995-10106	19950109
AU 685196	B2	19980115		
HU 72412	A2	19960429	HU 1995-52	19950109
AT 151416	T	19970415	AT 1995-100180	19950109
ES 2101583	T3	19970701	ES 1995-100180	19950109
IL 112284	A	19981030	IL 1995-112284	19950109
FI 9500127	A	19950715	FI 1995-127	19950111
CN 1109889	A	19951011	CN 1995-101166	19950111
CN 1043349	B	19990512		
RU 2139854	C1	19991020	RU 1995-100773	19950111
NO 9500137	A	19950717	NO 1995-137	19950113
JP 07206803	A	19950808	JP 1995-3729	19950113

JP 2862489	B2	19990303			
PL 180273	B1	20010131	PL 1995-306797		19950113
BR 9500096	A	19951031	BR 1995-96		19951013
PRIORITY APPLN. INFO.:			CH 1994-114	A	19940114
			CH 1994-3315	A	19941107

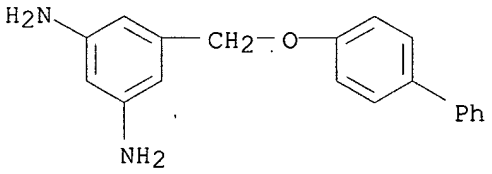
OTHER SOURCE(S): CASREACT 124:202946; MARPAT 124:202946

AB AX(CH2)mB(CH2)pXA [A = sugar alc. residue (derivative), tris(hydroxymethyl)methyl; ≥1 of the A OH groups are esterified with H2SO4; jX = NR1CO, NHCONH, NHCSNH, NHSO2, NR1, O; m, p = 0, 1; R1 = H, alkyl, hydroxyalkyl; B = system of conjugated multiple bonds], were prepared Thus, (Z)-3-[3-biphenyl-4-yloxymethyl-5-[(Z)-3-carboxyacryloylamino]phenylcarbamoyl]acrylic acid in DMF was treated successively with 4-methylmorpholine, 2-chloro-4,6-dimethoxy-1,3,5-triazine, and D-glucamine to give (Z)-butenedioic acid (Z)-[3-biphenyl-4-yloxymethyl-5-(3-D-glucit-1-ylcarbamoylacryloylamino)phenylamide]-D-glucit-1-ylamide, which was converted to (Z)-butenedioic acid (Z)-[3-biphenyl-4-yloxymethyl-5-[3-(2,3,4,5,6-penta-O-sulfo-D-glucit-1-ylcarbamoyl)acryloylamino]phenylamide]-(2,3,4,5,6-penta-O-sulfo-D-glucit-1-yl)amide. The latter had 2.2 times the antiproliferative activity of heparin without showing appreciable anticoagulative activity.

IT 171240-34-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of sulfate esters of sugar alcs. for the treatment of arteriosclerotic changes in the vascular walls)

RN 171240-34-9 CAPLUS

CN 1,3-Benzenediamine, 5-[([1,1'-biphenyl]-4-yloxy)methyl]- (9CI) (CA INDEX NAME)



L3 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:	1992:469544 CAPLUS
DOCUMENT NUMBER:	117:69544
TITLE:	Calixarenes. 27. Synthesis, characterization, and complexation studies of double-cavity calix[4]arenes
AUTHOR(S):	Gutsche, C. David; See, Keat Aun
CORPORATE SOURCE:	Dep. Chem., Texas Christian Univ., Fort Worth, TX, 76129, USA
SOURCE:	Journal of Organic Chemistry (1992), 57(16), 4527-39 CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE:	Journal
LANGUAGE:	English
OTHER SOURCE(S):	CASREACT 117:69544

AB The ease with which calix[4]arenes can be selectively substituted at the distal phenolic oxygens is employed to advantage to build a second cavity and create two classes of "double-cavity calixarenes". Through the use of 3,5-dinitrobenzoyl chloride, 3-nitro-5-carbomethoxybenzoyl chloride, 3,5-dinitrobenzyl chloride, or 3-nitro-5-carbomethoxybenzyl chloride and 4-tert-butylcalix[4]arene diesters, diether and ether-ester derivs. were prepared The second cavity is built by reduction of the nitro groups to amino groups [e.g. of 5,11,17,23-tetra-tert-butyl-25,27-bis[(3,5-dinitrobenzyl)oxy]-26,28-dihydroxycalix[4]arene] to give amines, followed by treatment with a diacyl chloride. The products thus obtained are double-spanned double-cavity calix[4]arenes. A study of the complexation

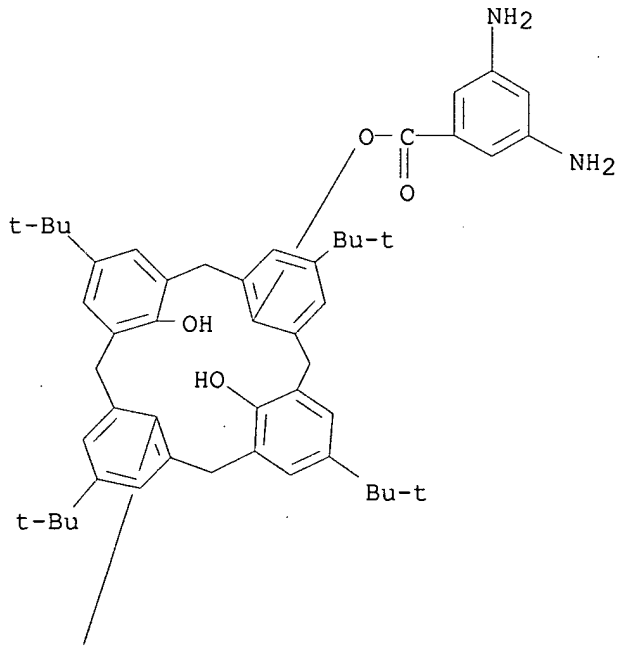
characteristics of the double-spanned double-cavity calixarenes shows the diester double-cavity calix[4]arene to be effective in forming complexes with acidic compds. (i.e., phenols and carboxylic acids) as well as basic compds. (i.e., pyridines, imidazoles, aliphatic amines). The Kassoc values range from <5 to 55 M-1 and are dependent both on the shape and the acidity or basicity of the guest. Several lines of evidence, including mol. modeling studies, indicate that complexation occurs at the side rather than the bottom of the host mol., providing an explanation for the differences in Kassoc for various pairs of guests and also establishing a rationale for the synthesis of the single-spanned double-cavity calix[4]arenes which form quite strong complexes (Kassoc > 103) with certain guests such as resorcinol.

IT 142320-22-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and acylation of)

RN 142320-22-7 CAPLUS

CN Benzoic acid, 3,5-diamino-, 27-[(3,5-diaminophenyl)methoxy]-5,11,17,23-tetrakis(1,1-dimethylethyl)-26,28-dihydroxypentacyclo[19.3.1.13,7.19,13.115,19]octacosa-1(25),3,5,7(28),9,11,13(27),15,17,19(26),21,23-dodecaen-25-yl ester (9CI) (CA INDEX NAME)

PAGE 1-A



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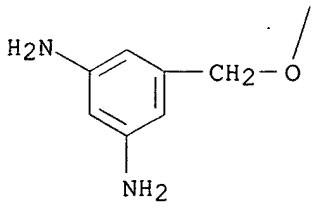

IT 142319-83-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and acylation of, double-spanned double-cavity calixarene from)

RN 142319-83-3 CAPLUS

CN Pentacyclo[19.3.1.13,7.19,13.115,19]octacosa-1(25),3,5,7(28),9,11,13(27),15,17,19(26),21,23-dodecaene-25,27-diol, 26,28-bis[(3,5-diaminophenyl)methoxy]-5,11,17,23-tetrakis(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)

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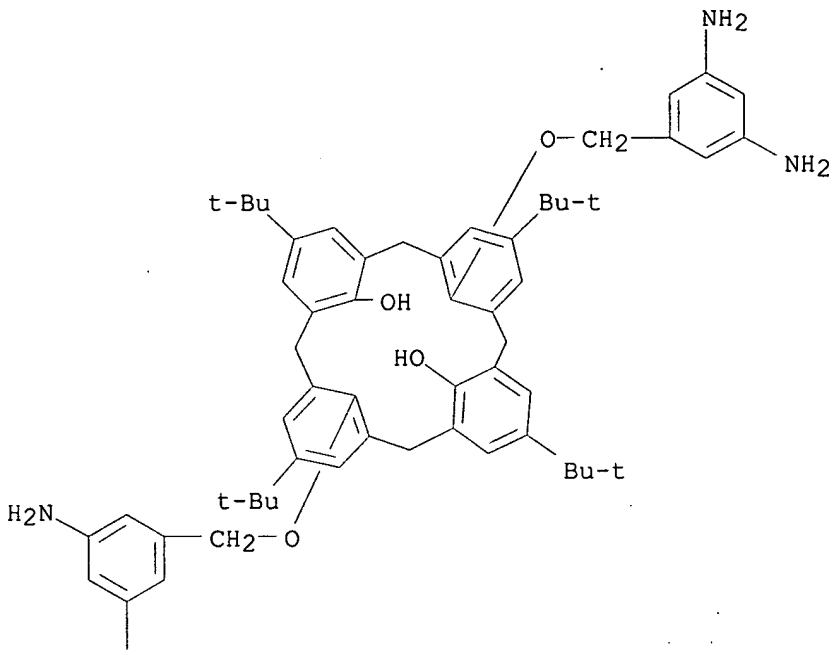

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